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(71) Applicant: **TOTO LTD.**  
**Kitakyushu-shi, Fukuoka-ken 802-8601 (JP)**

(72) Inventors:  
• **KOBAYASHI, Hideki**  
**Kitakyushu-shi, Fukuoka 802-8601 (JP)**

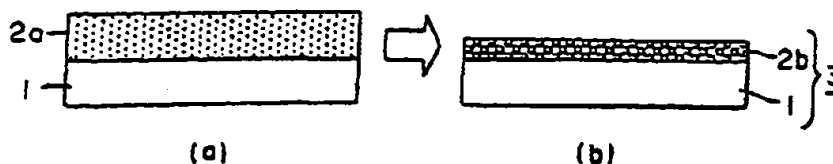
• **SAEKI, Yoshimitsu**  
**Kitakyushu-shi, Fukuoka 802-8601 (JP)**  
• **TANAKA, Shinji**  
**Kitakyushu-shi, Fukuoka 802-8601 (JP)**  
• **NAKASHIMA, Yasushi**  
**Kitakyushu-shi, Fukuoka 802-8601 (JP)**  
• **MAYUMI, Yoshitaka**  
**Kitakyushu-shi, Fukuoka 802-8601 (JP)**

(74) Representative: **Grünecker, Kinkeldey,  
Stockmair & Schwanhäusser Anwaltssozietät**  
**Maximilianstrasse 58**  
**80538 München (DE)**

(54) **METHOD FOR PRODUCING HIGH-PERFORMANCE MATERIAL HAVING PHOTOCATALYTIC FUNCTION AND DEVICE THEREFOR**

(57) Disclosed is a method and an apparatus are provided which can efficiently produce a functional material having a satisfactory level of photocatalytic activity. A photocatalyst coating composition comprising a photocatalytic metal oxide and/or a precursor of the photocatalytic metal oxide is coated on the surface of a substrate. The surface of the coated substrate is rapidly

heated to fix the photocatalytic metal oxide onto the surface of the substrate. This rapid heating can realize the production of a functional material having a satisfactory level of photocatalytic activity in an efficient manner. The apparatus, which can continuously carry out the rapid heating immediately after the production of the substrate, can produce the functional material having photocatalytic activity in an efficient manner.



**FIG. 1**